

# Tristel Fuse for Water

## Working Solution Safety Data Sheet

<b>Product Name:</b>	<b>Tristel Fuse for Water – Working Solution</b>	Revision Number FUS/WAT/002 Publication Date 30.6.08
<b>Product Code:</b>	<b>FUS/WAT</b>	
Type of product:	Powerful disinfectant for water	
Manufacturer:	Tristel Solutions Limited Lynx Business Park Fordham Road Snailwell Cambridgeshire, CB8 7NY United Kingdom	
Telephone Number:	+44 (0) 1638 721500	
Fax Number:	+44 (0) 1638 721911	
Emergency Number:	+44 (0) 7798 805692 (out of business hours)	
Chemical type:	Mild Oxidising Solution	

### Composition:

Ingredients	CAS No	EINECS No	Wt/Vol %	Symbol
Chlorine dioxide in aqueous solution: 5 litres working solution 20 litres working solution	10049-04-4	233-162-8	0.01-0.0125 0.0025-0.003	ClO <sub>2</sub>
Water				H <sub>2</sub> O

**Hazards identification:** Chlorine dioxide generator  
(OES of 0.3ppm short term; 0.1ppm long term)

### First aid measures:

Inhalation: Non-toxic  
 Eye contact: Rinse eyes with water  
 Skin contact: Wash affected area with water  
 Ingestion: Do not induce vomiting. Give milk or water to drink  
 Seek medical advice where necessary

**Fire fighting measures:** Non flammable

### Accidental release measures:

Environmental precautions: Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995

Clean up method: Flush to drain with water or soak up onto inert material and dispose of with clinical waste

Clothing for disposal: Wear appropriate gloves and apron

This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)

# Tristel Fuse for Water

## Working Solution Safety Data Sheet

---

Revision Number  
FUS/WAT/002  
Publication Date  
30.6.08

### Handling and storage:

Handling guidelines: Safe handling in accordance with label instructions  
Not to be mixed with other chemicals  
Keep from children

Storage guidelines: Store out of direct sunlight  
Single-Use solution

### Exposure controls/personal protection:

Personal protection: Avoid eye contact and prolonged skin contact  
Gloves and apron recommended

Skin contact: Low risk  
No known hazard

Eye contact: Low risk  
No known hazard

Inhalation: Low risk

Ingestion: Low risk, substantial ingestion may cause discomfort to mouth  
and digestive tissues

### Physical and chemical properties:

Physical state: Liquid

Appearance and odour: Light yellow with mild odour

Evaporation rate: As water

Boiling point: 101 degrees centigrade

Freezing point: As water

% Volatile (by weight): Not known

Solubility in water (20°C): Soluble

pH: 5.5 approximately

Specific gravity 1.005 @ 20°C

This document conforms  
with Regulation 6 of the  
Chemicals (Hazard  
Information and Packaging  
Supply) Regulations  
2002 (CHIP3)

# Tristel Fuse for Water

## Working Solution Safety Data Sheet

---

Revision Number  
FUS/WAT/002  
Publication Date  
30.6.08

### Stability and reactivity:

Decomposes to simple salt solution

Hazardous decomposition products: None under normal use

Chlorine donors and oxygen produced if heated

### Toxicological information:

LD50 (oral, rat)	>5,000 mg/kg
Irritation to skin (rabbit)	Negative
Irritation to eyes (rabbit)	Negative
Sensitisation (guinea pig)	Negative

**Ecological information:** Presents no known hazards to the environment

### Disposal considerations:

Packaging:	Can be disposed of as normal waste in accordance with local authority regulations
Contaminated packaging:	May be disposed of safely under normal conditions in accordance with local authority regulations
Product:	Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures

**Transport information:** No special conditions apply, non hazardous

### Regulatory information:

Not a licensed medicine

Approved under EEC 93/42 for contact with medical instruments

### Other information:

Safety phrases:

- (2) Keep out of reach of children
- (50) Do not mix with other chemicals

This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations (CHIP3)

# Tristel Fuse for Water

## Activator & Base Safety Data Sheet

Product Name: <b>Tristel Fuse – Activator Solution</b>		Product Name: <b>Tristel Fuse – Base Solution</b>		Revision Number FUS/WAT/002 Publication Date 30.6.08
<b>Chemical Type:</b>	Sodium salt solution	<b>Chemical Type:</b>	Organic acid blend	
<b>Composition/information on ingredients:</b>		<b>Composition/information on ingredients:</b>		
<b>Major ingredients:</b>	2.1% Sodium chlorite solution in de-mineralised water	<b>Major ingredients:</b>	5% solution of citric acid, with preservatives and corrosion inhibitors in de-mineralised water	
<b>Hazards Identification:</b>	No specific hazards Contact with acids liberates chlorine dioxide	<b>Hazards Identification:</b>	No specific hazards	
<b>First-aid measures:</b>		<b>First-aid measures:</b>		
Inhalation:	Non-toxic	Inhalation:	Non-toxic	
Eye contact:	Rinse eyes with water	Eye contact:	Rinse eyes with water	
Skin contact:	Wash affected area with water	Skin contact:	Wash affected area with water	
Ingestion:	Do not induce vomiting give milk or water to drink  Seek medical advice where necessary	Ingestion:	Do not induce vomiting give milk or water to drink  Seek medical advice where necessary	
<b>Fire fighting measures:</b>		<b>Fire fighting measures:</b>		
Non flammable		Non flammable		
<b>Accidental release measures:</b>		<b>Accidental release measures:</b>		
Environmental Precautions:	Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995	Environmental Precautions:	Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995	
Clean up method:	Flush to drain with water or soak up onto inert material and dispose of with clinical waste	Clean up method:	Flush to drain with water or soak up onto inert material and dispose of with clinical waste	This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)
Clothing for disposal:	Wear appropriate gloves and apron	Clothing for disposal:	Wear appropriate gloves and apron	

# Tristel Fuse for Water

## Activator & Base Safety Data Sheet

Product Name: <b>Tristel Fuse – Activator Solution</b>		Product Name: <b>Tristel Fuse – Base Solution</b>		Revision Number FUS/WAT/002 Publication Date 30.6.08
<b>Handling and storage:</b>		<b>Handling and storage:</b>		
Handling guidelines:	Safe handling in accordance with label instructions	Handling guidelines:	Safe handling in accordance with label instructions	
	Not to be mixed with other chemicals		Not to be mixed with other chemicals	
	Keep from children		Keep from children	
Storage guidelines:	Store out of direct sunlight	Storage guidelines:	Store out of direct sunlight	
	Shelf life – two years – see product for expiry date		Shelf life – two years – see product for expiry date	
<b>Exposure controls/personal protection:</b>		<b>Exposure controls/personal protection:</b>		
Personal protection:	Avoid eye contact and prolonged skin contact	Personal protection:	Avoid eye contact and prolonged skin contact	
	Gloves and apron recommended		Gloves and apron recommended	
Skin contact:	Low risk	Skin contact:	Low risk	
	No known hazard		No known hazard	
Eye contact:	Low risk	Eye contact:	Low risk	
	No known hazard		No known hazard	
Inhalation:	Low risk	Inhalation:	Low risk	
Ingestion:	Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues	Ingestion:	Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues	
<b>Physical and chemical Properties:</b>		<b>Physical and chemical Properties:</b>		
Physical state:	Liquid	Physical state:	Liquid	
Appearance and odour:	Clear colourless solution, no odour	Appearance and odour:	Pale blue, no odour	
Evaporation rate:	As water	Evaporation rate:	As water	
Boiling point:	100 degrees centigrade	Boiling point:	100 degrees centigrade	
				This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP2)

# Tristel Fuse for Water

## Activator & Base Safety Data Sheet

Product Name: <b>Tristel Fuse – Activator Solution</b>	Product Name: <b>Tristel Fuse – Base Solution</b>	Revision Number FUS/WAT/002 Publication Date 30.6.08
<p><b>Physical and chemical Properties continued:</b></p> <p>Freezing point: As water</p> <p>% Volatile (by weight): Not known</p> <p>Solubility in water (20° C): Soluble</p> <p>pH: 11.5 - 13 approximately</p> <p>Specific gravity: 1.025 @ 20° C</p>	<p><b>Physical and chemical Properties continued:</b></p> <p>Freezing point: As water</p> <p>% Volatile (by weight): Not known</p> <p>Solubility in water (20° C): Soluble</p> <p>pH: 1.5 – 3.5 approximately</p> <p>Specific gravity: 1.020 @ 20° C</p>	
<p><b>Stability and reactivity:</b></p> <p>No decomposition if stored and used as directed</p> <p>Hazardous decomposition products: None under normal use</p> <p>Chlorine donors and oxygen produced if heated</p>	<p><b>Stability and reactivity:</b></p> <p>No decomposition if stored and used as directed</p> <p>Hazardous decomposition products: None under normal use</p> <p>Not compatible with alkaline substance and chlorine donors</p>	
<p><b>Toxicological information:</b></p> <p>Animal studies: No known risks to skin exposure</p> <p>Human studies: No known risks to skin exposure</p>	<p><b>Toxicological information:</b></p> <p>Acute oral LD50: &gt;4000 mg/kg</p> <p>Animal studies: No known risks to skin exposure</p> <p>Human studies: No known risks to skin exposure</p>	
<p><b>Ecological information:</b></p> <p>No known adverse effects from normal use</p>	<p><b>Ecological information:</b></p> <p>No known adverse effects from normal use</p>	
<p><b>Disposal considerations:</b></p> <p>Packaging: Can be disposed of as normal waste in accordance with local authority regulations</p> <p>Contaminated packaging: May be disposed of safely under normal conditions in accordance with local authority regulations</p>	<p><b>Disposal considerations:</b></p> <p>Packaging: Can be disposed of as normal waste in accordance with local authority regulations</p> <p>Contaminated packaging: May be disposed of safely under normal conditions in accordance with local authority regulations</p>	<p>This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)</p>

# Tristel Fuse for Water

## Activator & Base Safety Data Sheet

<p><b>Product Name:</b> Tristel Fuse – Activator Solution</p> <p><b>Disposal considerations continued:</b></p> <p>Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures</p> <p><b>Transport information:</b></p> <p>No special conditions apply, non hazardous</p> <p><b>Regulatory information:</b></p> <p>Not a licensed medicine</p> <p>Approved under EEC 93/42 for contact with medical instruments</p> <p><b>Other information:</b></p> <p>Safety phrases</p> <p>(2) Keep out of reach of children</p> <p>(24/25) Avoid contact with skin and eyes</p> <p>(50) Do not mix with other chemicals</p>	<p><b>Product Name:</b> Tristel Fuse – Base Solution</p> <p>Revision Number FUS/WAT/002 Publication Date 30.6.08</p> <p><b>Disposal considerations continued:</b></p> <p>Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures</p> <p><b>Transport information:</b></p> <p>No special conditions apply, non hazardous</p> <p><b>Regulatory information:</b></p> <p>Not a licensed medicine</p> <p>Approved under EEC 93/42 for contact with medical instruments</p> <p><b>Other information:</b></p> <p>Safety phrases</p> <p>(2) Keep out of reach of children</p> <p>(24/25) Avoid contact with skin and eyes</p> <p>(50) Do not mix with other chemicals</p> <p>This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)</p>
---	--